

A070us.txt

SEQUENCE LISTING

<110> BIOGEN, INC.
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<120> BAFF, Inhibitors Thereof and Their Use
 in the Modulation of B-Cell Response

<130> A070 US

<150> 60/117,169

<151> 1999-01-25

<150> 60/143,228

<151> 1999-07-09

<150> PCT/US00/01788

<151> 2000-01-25

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 218

<212> PRT

<213> Homo Sapien

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Met	Asp	Asp	Ser	Thr	Glu	Arg	Glu	Gln	Ser	Arg	Leu	Thr	Ser	Cys	Leu
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Lys	Lys	Arg	Glu	Glu	Met	Lys	Leu	Lys	Glu	Cys	Val	Ser	Ile	Leu	Pro
			20					25					30		
Arg	Lys	Glu	Ser	Pro	Ser	Val	Leu	Leu	Ser	Cys	Cys	Leu	Thr	Val	Val
			35				40					45			
Ser	Phe	Tyr	Gln	Val	Ala	Ala	Leu	Gln	Gly	Asp	Leu	Ala	Ser	Leu	Arg
	50					55				60					
Ala	Glu	Leu	Gln	Gly	His	His	Ala	Glu	Lys	Leu	Pro	Ala	Gly	Ala	Lys
65					70					75				80	
Ile	Phe	Glu	Pro	Pro	Ala	Pro	Gly	Glu	Gly	Asn	Ser	Ser	Gln	Asn	Ser
				85				90						95	
Arg	Asn	Lys	Arg	Ala	Val	Gln	Gly	Pro	Glu	Glu	Thr	Val	Thr	Gln	Asp
			100					105					110		
Cys	Leu	Gln	Leu	Ile	Ala	Asp	Ser	Glu	Thr	Pro	Thr	Ile	Gln	Lys	Gly

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		115					120			125					
Ser	Tyr	Thr	Phe	Val	Pro	Trp	Leu	Leu	Ser	Phe	Lys	Arg	Gly	Ser	Ala
	130					135					140				
Leu	Tyr	Gly	Gln	Val	Leu	Tyr	Thr	Asp	Lys	Thr	Tyr	Ala	Met	Gly	His
145					150					155					160
Leu	Ile	Gln	Arg	Lys	Lys	Val	His	Val	Phe	Gly	Asp	Glu	Leu	Ser	Leu
				165					170					175	
Val	Thr	Leu	Phe	Arg	Cys	Ile	Gln	Asn	Leu	Glu	Glu	Gly	Asp	Glu	Leu
			180					185					190		
Gln	Leu	Ala	Ile	Pro	Arg	Glu	Asn	Ala	Gln	Ile	Ser	Leu	Asp	Gly	Asp
	195					200						205			
Val	Thr	Phe	Phe	Gly	Ala	Leu	Lys	Leu	Leu						
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<210> 2

<211> 232

<212> PRT

<213> Murine

<400> 2

Met	Asp	Glu	Ser	Ala	Lys	Thr	Leu	Pro	Pro	Pro	Cys	Leu	Cys	Phe	Cys
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Ser	Glu	Lys	Gly	Glu	Asp	Met	Lys	Val	Gly	Tyr	Asp	Pro	Ile	Thr	Pro
			20					25					30		
Gln	Lys	Glu	Gly	Ala	Val	Leu	Leu	Ser	Ser	Ser	Phe	Thr	Ala	Met	
		35				40					45				
Ser	Leu	Tyr	Gln	Leu	Ala	Ala	Leu	Gln	Ala	Asp	Leu	Met	Asn	Leu	Arg
	50					55				60					
Met	Glu	Leu	Gln	Ser	Tyr	Arg	Gly	Ser	Ala	Thr	Pro	Ala	Ala	Ala	Lys
	65				70					75					80
Leu	Leu	Thr	Pro	Ala	Pro	Arg	Pro	His	Asn	Ser	Ser	Arg	Gly	His	
			85					90					95		
Arg	Asn	Arg	Arg	Ala	Phe	Pro	Gly	Pro	Glu	Glu	Thr	Glu	Gln	Asp	Val
			100					105					110		
Asp	Leu	Ser	Ala	Pro	Pro	Ala	Leu	Arg	Asn	Ile	Ile	Gln	Asp	Cys	Leu
		115					120					125			
Gln	Leu	Ile	Ala	Asp	Ser	Asp	Thr	Pro	Thr	Ile	Arg	Lys	Gly	Thr	Tyr
	130					135					140				
Thr	Phe	Val	Pro	Trp	Leu	Leu	Ser	Phe	Lys	Arg	Gly	Asn	Ala	Leu	Tyr
	145				150					155					160
Ser	Gln	Val	Leu	Tyr	Thr	Asp	Pro	Ile	Phe	Ala	Met	Gly	His	Val	Ile
				165					170					175	
Gln	Arg	Lys	Lys	Val	His	Val	Phe	Gly	Asp	Glu	Leu	Ser	Leu	Val	Thr
			180					185					190		
Leu	Phe	Arg	Cys	Ile	Gln	Asn	Leu	Glu	Glu	Gly	Asp	Glu	Ile	Gln	Leu
		195					200					205			
Ala	Ile	Pro	Arg	Glu	Asn	Ala	Gln	Ile	Ser	Arg	Asn	Gly	Asp	Asp	Thr
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<210> 3
 <211> 102
 <212> PRT
 <213> Homo Sapien

<400> 3
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 Arg Gly Ser Ala Leu Glu Glu Lys Tyr Gly Gln Val Leu Tyr Thr Asp
 35 40 45
 Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val His Val
 50 55 60
 Phe Gly Asp Glu Leu Ser Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala
 65 70 75 80
 Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn
 85 90 95
 Ala Gln Ile Ser Leu Asp
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<210> 4
 <211> 96
 <212> PRT
 <213> Homo Sapien

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 Lys Gln His Ser Val Leu His Leu Val Pro Ile Asn Ala Thr Ser Lys
 1 5 10 15
 Asp Asp Ser Asp Val Thr Glu Val Met Trp Gln Pro Ala Leu Arg Arg
 20 25 30
 Gly Arg Gly Leu Gln Ala Gln Tyr Ser Gln Val Leu Phe Gln Asp Val
 35 40 45
 Thr Phe Thr Met Gly Gln Val Val Ser Arg Glu Gly Gln Gly Arg Ala
 50 55 60
 Tyr Asn Ser Cys Tyr Ser Ala Gly Val Phe His Leu His Gln Gly Asp
 65 70 75 80
 Ile Leu Ser Val Ile Ile Pro Arg Ala Arg Ala Lys Leu Asn Leu Ser
 85 90 95

<210> 5
 <211> 104
 <212> PRT
 <213> Homo Sapien

<400> 5
 Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro Gln Ala Glu Gly
 1 5 10 15
 Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu Leu Ala Asn Gly
 20 25 30
 Val Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly Cys Pro Ser Thr His

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      35              40              45
Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr
   50              55              60
Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly
  65              70              75              80
Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg
      85              90              95
Pro Asp Tyr Leu Asp Phe Ala Glu
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<210> 6
 <211> 97
 <212> PRT
 <213> Homo Sapien

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<400> 6
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Met Pro Leu Glu Trp Glu Asp Thr Tyr Gly Ile Val Leu Leu Ser Gly
      20              25              30
Val Lys Tyr Ser Lys Val Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu
   35              40              45
Pro Leu Ser His Lys Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Met
   50              55              60
Trp Ala Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala
  65              70              75              80
Asp His Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu
      85              90              95
Glu

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<210> 7
 <211> 102
 <212> PRT
 <213> Homo Sapien

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<400> 7
Thr Leu Lys Pro Ala Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn
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Ser Leu Leu Trp Arg Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly
      20              25              30
Phe Tyr Ser Gln Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala
   35              40              45
Thr Ser Ser Pro Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser
   50              55              60
Gln Tyr Pro Phe Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe
  65              70              75              80
Gln Leu Thr Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro
      85              90              95
His Leu Val Leu Ser Phe
      100

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<210> 8
 <211> 109
 <212> PRT
 <213> Homo Sapien

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 Glu Ala Gln Pro Phe Ala His Leu Thr Ile Asn Ala Thr Asp Ile Pro
 1 5 10 15
 Ser Gly Ser His Lys Val Ser Leu Ser Ser Trp Tyr His Asp Arg Gly
 20 25 30
 Trp Gly Lys Ile Ser Asn Met Tyr Ala Asn Ile Cys Phe Arg His His
 35 40 45
 Glu Thr Ser Gly Asp Leu Ala Thr Glu Tyr Leu Gln Leu Met Val Tyr
 50 55 60
 Val Thr Lys Thr Ser Ile Lys Ile Pro Ser Glu Phe His Phe Tyr Ser
 65 70 75 80
 Ile Asn Val Gly Gly Phe Phe Lys Leu Arg Ser Gly Glu Glu Ile Ser
 85 90 95
 Ile Glu Val Ser Asn Pro Ser Leu Leu Asp Pro Asp Gln
 100 105

<210> 9
 <211> 26
 <212> DNA
 <213> Homo Sapien

<400> 9
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<210> 10
 <211> 30
 <212> DNA
 <213> Homo Sapien

<400> 10
 gacaagcttg ccaccatgga tgactccaca
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<210> 11
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<400> 11
 actagtcaca gcagtttcaa tgc
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<210> 12
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<400> 12
ctgcagggtc cagaagaaac ag
22

<210> 13
<211> 24
<212> DNA
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<400> 13
ggagaaggca actccagtca gaac
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<210> 14
<211> 24
<212> DNA
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<400> 14
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<210> 15
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<212> DNA
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<400> 15
tcggaacaca acgaaacaag tc
22

<210> 16
<211> 26
<212> DNA
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<400> 16
cttctccttc acctggaaac tgactg
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<400> 17
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<210> 18
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<400> 18
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<211> 35
<212> DNA
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<211> 35
<212> DNA
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<210> 21
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<210> 22
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<400> 22
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21